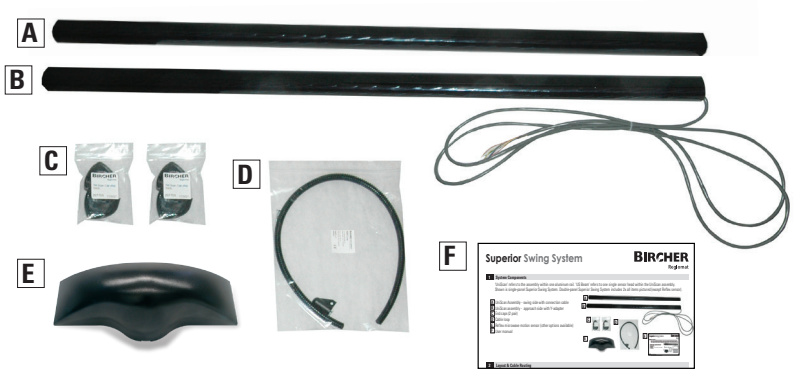
Superior Swing System

BIRCHER Reglomat

1 System Components

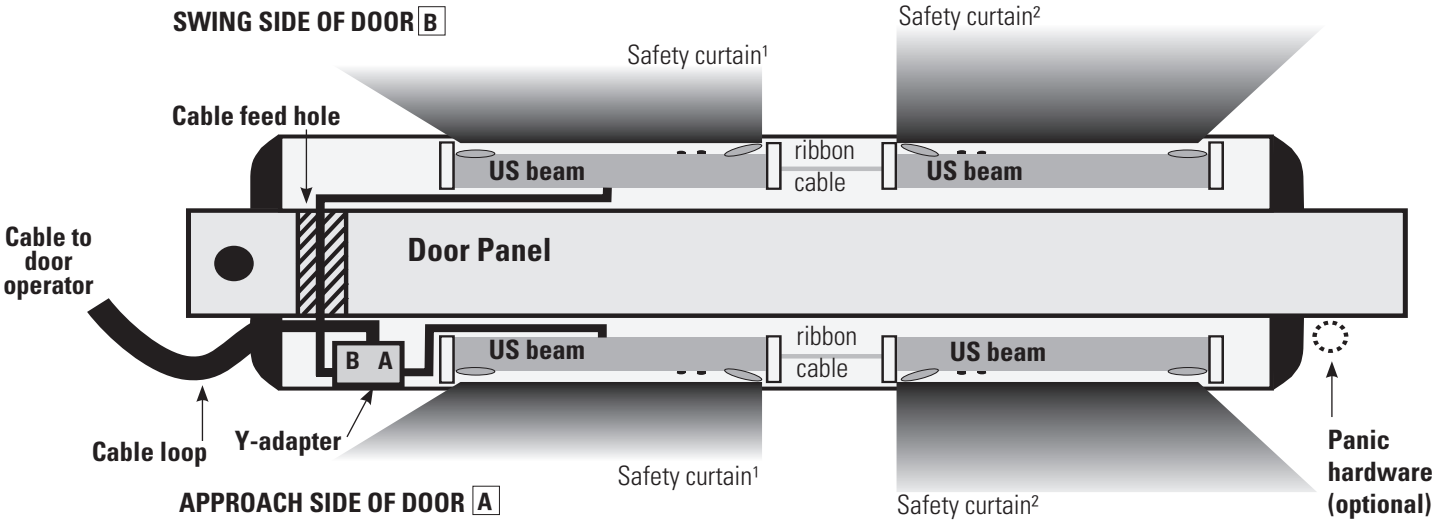
'UniScan' refers to the assembly within one aluminum rail. 'US Beam' refers to one single sensor head within the UniScan assembly.
Shown is single-panel Superior Swing System. Double-panel Superior Swing System includes 2x all items pictured (except Reflex sensor).

- A UniScan Assembly - swing side with connection cable
- B UniScan assembly - approach side with Y-adapter
- C End caps (2 pair)
- D Cable loop
- E Reflex microwave motion sensor (other options available)
- F User manual



2 Layout & Cable Routing

Use the following diagram to route the Y-adapter cables.

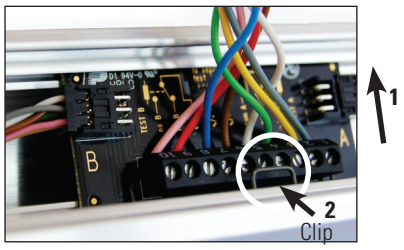


This drawing (cross section of door from above) shows factory settings (typical UniScan installation). The following conditions apply:
- Single-panel door (see layout for double-panel door on page 2)
- Center pivot left hand door

[1] Factory setting for hinge side US Beam safety curtain is 5° away from face of door
[2] Factory setting for leading edge side US Beam safety curtain for is 8° away from face of door

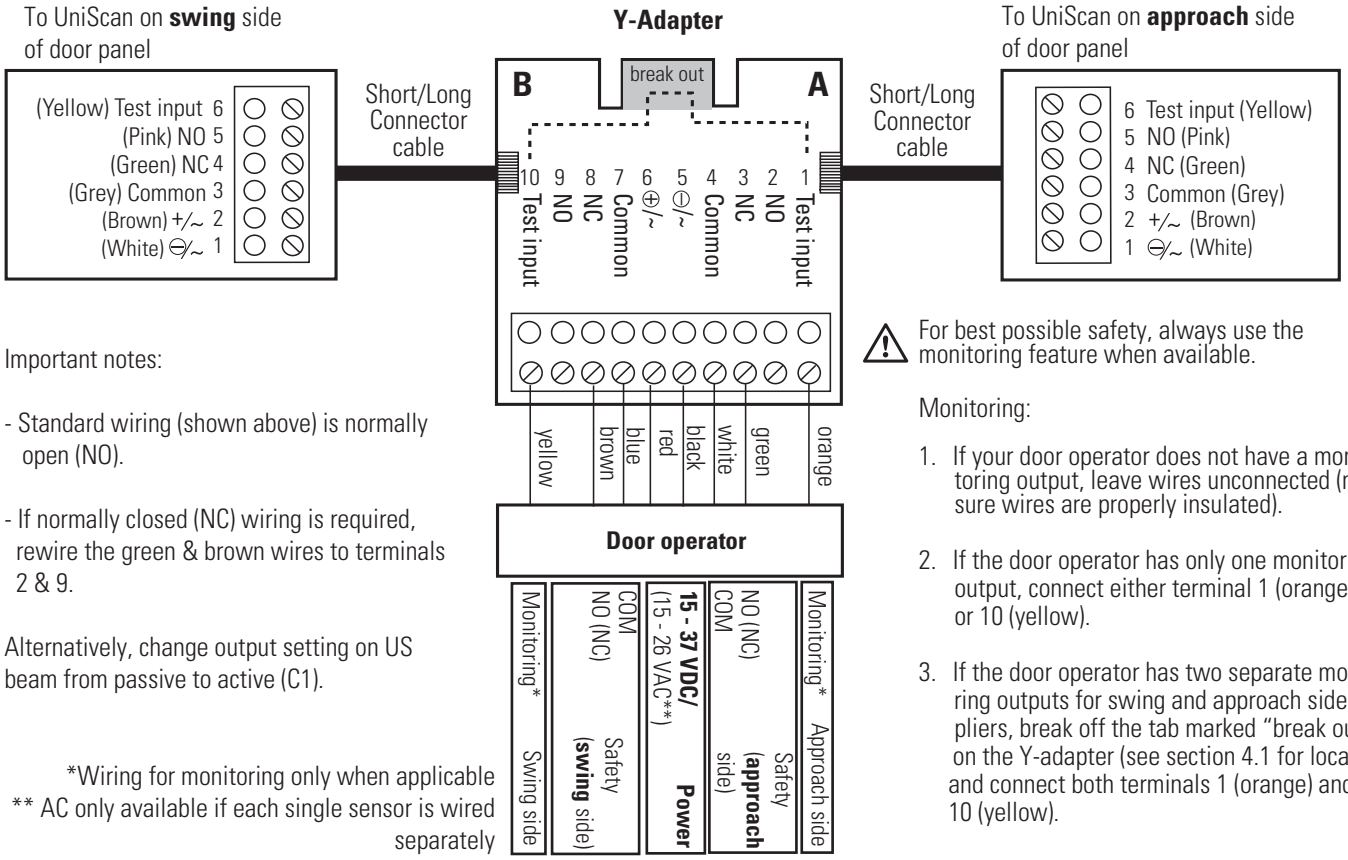
3 Mounting the Sensor

1. Position the UniScan assemblies preferably at the same height on both sides of the door.
2. Attach the aluminum rail to the top of the door (use 2 screws for ≤ 36", 3 screws for ≥ 36")
3. Drill a hole through the aluminum rails and door Ø 3/8" (10 mm) for the long connection cable to feed through to the other side. The 6-pin plug fits through a 3/8" 10 mm hole. If necessary (e.g fire door) use a smaller diameter hole- 3/16" (4.5 mm), then remove the wires from the screw terminal block, feed the cable through the hole, and re-wire the wires to the screw terminal block.
4. Feed the cable through the hole.
5. Connect the cables to the Y-adapter. Approach side UniScan to A; swing side Uniscan to B
6. If necessary, adjust the US beam pattern
7. Route the cable to the door operator (it may be necessary to drill a hole).
8. Attach the door loop to wall/operator housing.
9. Wire the 8-wire cable to the door operator terminals (see wiring diagram on following page).



If it is necessary to remove and re-mount the Y - adapter, insert the Y-adapter into the groove at the top of the aluminium rail (1) and secure at the bottom using the spring clip (2).

4 Electrical Connection



⚠ Important notes:

- Standard wiring (shown above) is normally open (NO).

- If normally closed (NC) wiring is required, rewire the green & brown wires to terminals 2 & 9.

Alternatively, change output setting on US beam from passive to active (C1).

*Wiring for monitoring only when applicable
** AC only available if each single sensor is wired separately

⚠ For best possible safety, always use the monitoring feature when available.

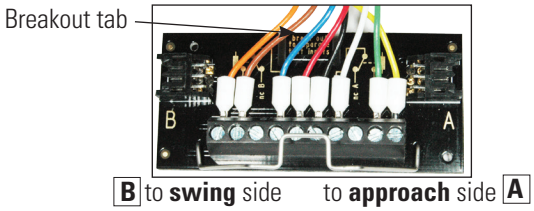
Monitoring:

1. If your door operator does not have a monitoring output, leave wires unconnected (make sure wires are properly insulated).

2. If the door operator has only one monitoring output, connect either terminal 1 (orange) or 10 (yellow).

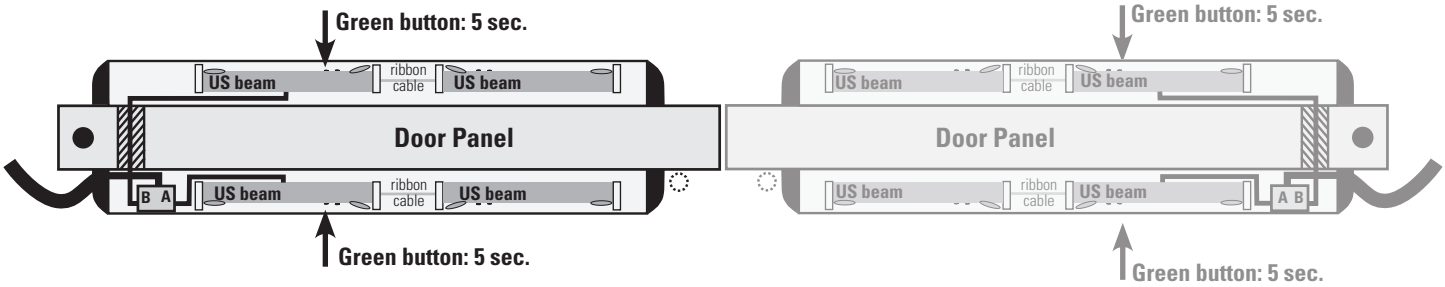
3. If the door operator has two separate monitoring outputs for swing and approach side, using pliers, break off the tab marked "break out" on the Y-adapter (see section 4.1 for location) and connect both terminals 1 (orange) and 10 (yellow).

4.1 Connections on the Y-adapter



5 Initialization (Teach-in)

After mounting the UniScan and making electrical connections, the sensors must be initialized.
Press & hold the green button on the US beams directly connected to the Y-adapter for 5 seconds (see arrows).
Both UniScans (on the approach and swing sides of the door) must be initialized.



For more information, please refer to UniScan user manual

BIRCHER Reglomat

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Bircher Reglomat
870 Pratt Avenue N
Schaumburg, IL 60193
Phone: 847-952-3730
Toll-Free: 800-252-1272
Fax: 847-952-2005
Email: sales@bircherreglomat.com
Web: www.bircherreglomat.com

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